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L1: Entry 1 of 2

File: EPAB

Mar 15, 2001

PUB-NO: DE019935920A1

DOCUMENT-IDENTIFIER: DE 19935920 A1

TITLE: Arrangement for heating reduction agent reservoir container of exhaust gas post-treatment system for internal combustion engine reliably prevents freezing of reduction agent

PUBN-DATE: March 15, 2001

## INVENTOR-INFORMATION:

NAME

COUNTRY

WEIGL, MANFRED

DE

## ASSIGNEE-INFORMATION:

NAME

COUNTRY

SIEMENS AG

DE

APPL-NO: DE19935920

APPL-DATE: July 30, 1999

PRIORITY-DATA: DE19935920A (July 30, 1999)

INT-CL (IPC): F01N 3/10

EUR-CL (EPC): F01N003/20 ; F01P003/20

## ABSTRACT:

CHG DATE=20011002 STATUS=O>The arrangement has a heating element (20) in the reduction agent reservoir container (10), which is connected to the engine cooling system via feed (19) and return (21) lines. The feed and return lines are arranged w.r.t. each other over at least part of their runs so as to form a heat exchanger. They are arranged parallel to each other in close thermal contact with opposite flow directions.

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L1: Entry 2 of 2

File: DWPI

Apr 17, 2003

DERWENT-ACC-NO: 2001-212150

DERWENT-WEEK: 200328

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TITLE: Arrangement for heating reduction agent reservoir container of exhaust gas post-treatment system for internal combustion engine reliably prevents freezing of reduction agent - has heating element in reduction agent reservoir container, which is connected to engine cooling system via feed and return lines arranged w.r.t. each other to form heat exchanger

INVENTOR: WEIGL, M

PATENT-ASSIGNEE:

ASSIGNEE

CODE

SIEMENS AG

SIEI

PRIORITY-DATA: 1999DE-1035920 (July 30, 1999)

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PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> <a href="#">DE 19935920 C2</a>	April 17, 2003		000	F01N003/10
<input type="checkbox"/> <a href="#">DE 19935920 A1</a>	March 15, 2001		008	F01N003/10

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
DE 19935920C2	July 30, 1999	1999DE-1035920	
DE 19935920A1	July 30, 1999	1999DE-1035920	

INT-CL (IPC): B01D 53/92; F01N 3/10

ABSTRACTED-PUB-NO: DE 19935920A

BASIC-ABSTRACT:

The arrangement has a heating element (20) in the reduction agent reservoir container (10), which is connected to the engine cooling system via feed (19) and return (21) lines. The feed and return lines are arranged w.r.t. each other over at least part of their runs so as to form a heat exchanger.

They are arranged parallel to each other in close thermal contact with opposite flow directions.

USE - For heating reduction agent reservoir container of exhaust gas post-treatment system for internal combustion engine.

ADVANTAGE - Reliably prevents freezing the reduction agent stored in reservoir container.

CHOSEN-DRAWING: Dwg.2/5

TITLE-TERMS: ARRANGE HEAT REDUCE AGENT RESERVOIR CONTAINER EXHAUST GAS POST TREAT SYSTEM  
INTERNAL COMBUST ENGINE RELIABILITY PREVENT FREEZE REDUCE AGENT HEAT ELEMENT REDUCE AGENT  
RESERVOIR CONTAINER CONNECT ENGINE COOLING SYSTEM FEED RETURN LINE ARRANGE FORM HEAT EXCHANGE

DERWENT-CLASS: Q51 X22

EPI-CODES: X22-A07;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N2001-151454

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